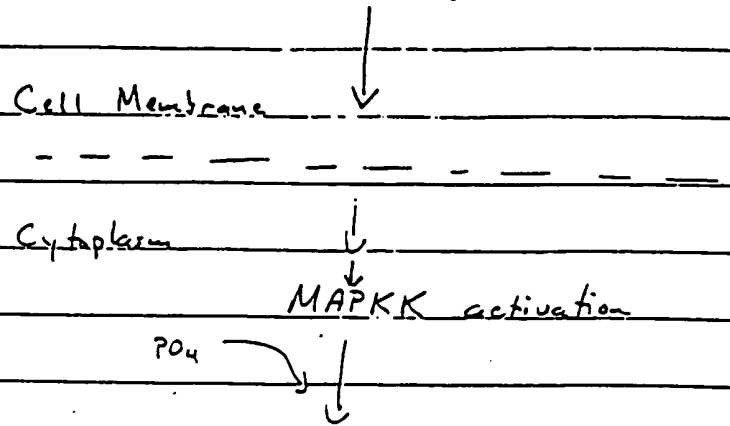


Figure

## Extracellular Stimuli

(Mitogens, Stress Signals, etc.)



## MAPK activation

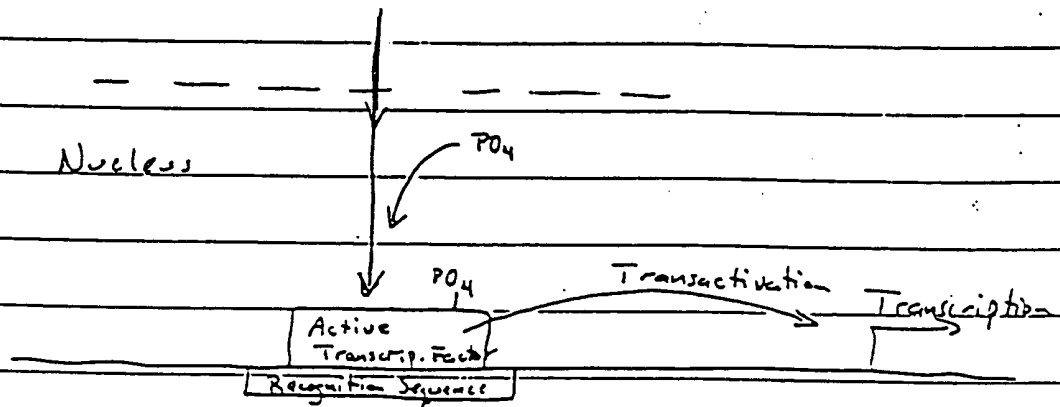


Figure 2

Monitoring Pathway - Specific Signal Transduction

Transducer Placed + Reporter Placed +

DBD: Pathway specific AD - 5x DBD - Reporter Gene -

Reporter side

Gene of Interest Placed  
Promoter - Gene of Interest

Transfected C-Transfect

Gene Product of Interest

Trans-activation

DBD AD

5x DBD

Regulatory Site

Reporter Gene

09637650.001.00

Common

Figure 3

## Selection of Stable Reporter Cell Lines

Reporter Construct (w/ linked DBD element)



Stably transfect



Screen for clones with low background  
of Reporter activity and strong  
response to DBD-bearing activator(s)



"Stable Reporter Cell Line"



Stably transfect with fusion  
transactivator plasmid



Screen for clones with strong  
response to pathway-specific  
upstream activator(s)



"Pathway-Specific Stable Reporter Cell Line"

00637650-031100

Figure 4

#### 4.1.1. pFR-Luc Plasmid



#### Sequence of GAL4 Binding Element in the pFR-Luc Plasmid

```

GT CGGAGTACTGTCCTCCG AG CGGAGTACTGTCCTCCG
AG CGGAGTACTGTCCTCCG AG CGGAGTACTGTCCTCCG
AG CGGAGTACTGTCCTCCG AG CGGAGACTCTAGAGGG
TATATATGGATCCCCGGGT AC CGAGCTCGAATTC--
--CAGCTTGGCATTCCGGTACTGTTGGTAAATG--Luciferase
  
```

00100 0592E960

# 4.1.4. pFA-CMV Plasmid

## pFA-CMV Plasmid

*Bam*H I *Srf*I *Sma*I    *Eco*R I *Xba*I *Hind*III *Pst*I    *Sac*I    *Kpn*I    *Bgl*II  
 GTA TCG CCG GGA TCG CCG CGG GCT GGA ATT CTA GAA GCT TCT GCA GAG CTC GGT ACC AGA TCT TGA ATA AGT AG  
 V    S    P    G    S    G    R    A    G    I    L    E    A    S    A    E    L    G    T    R    S    \*    \*    \*

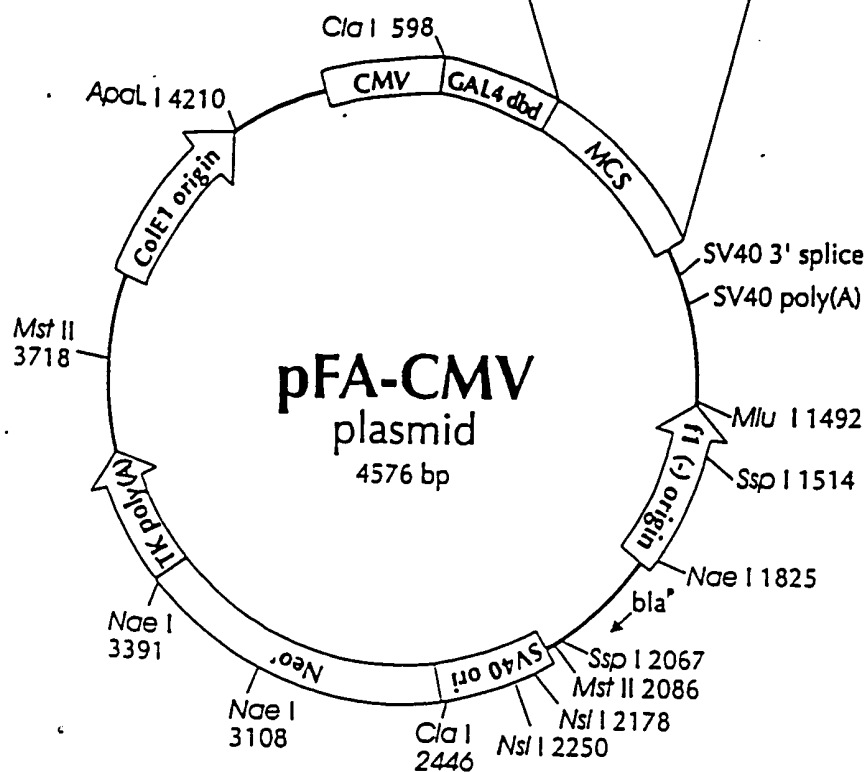


Figure 5

0037650.08100

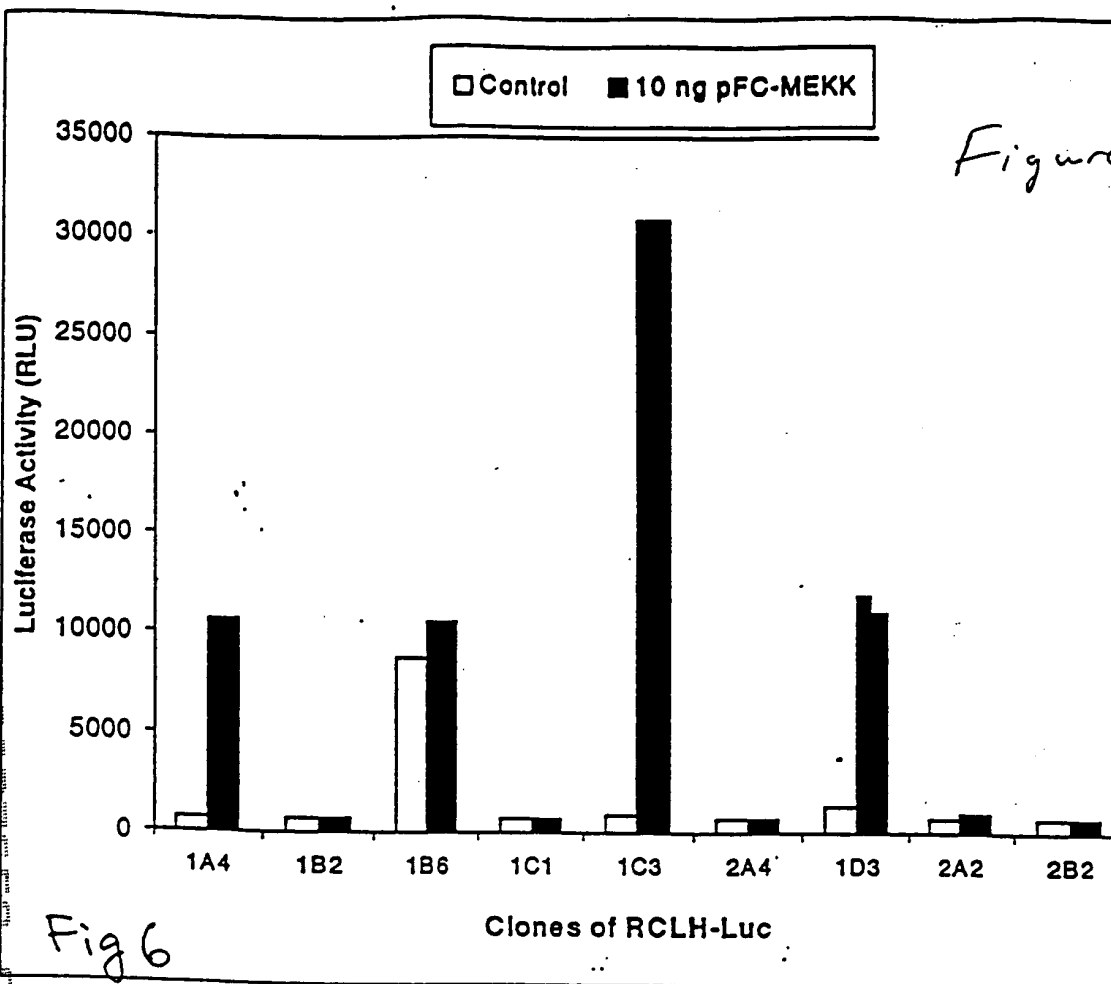
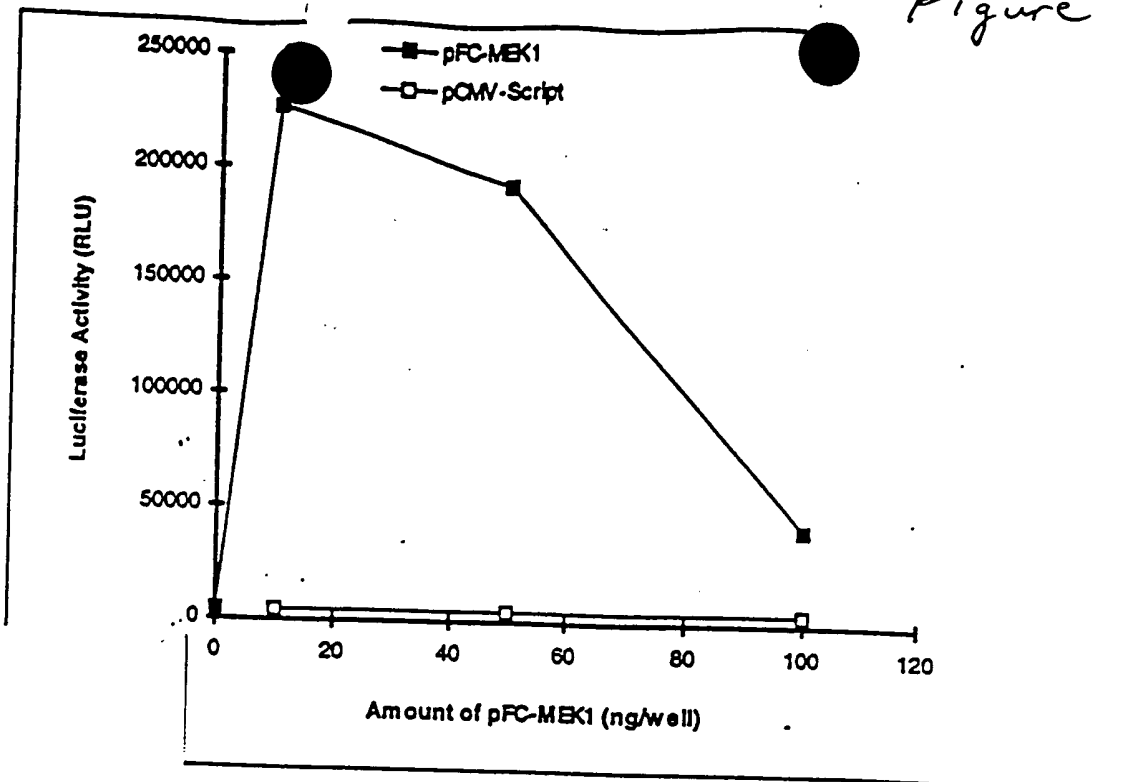


Figure 6

Fig 6

Figure 7



001130 0502E960

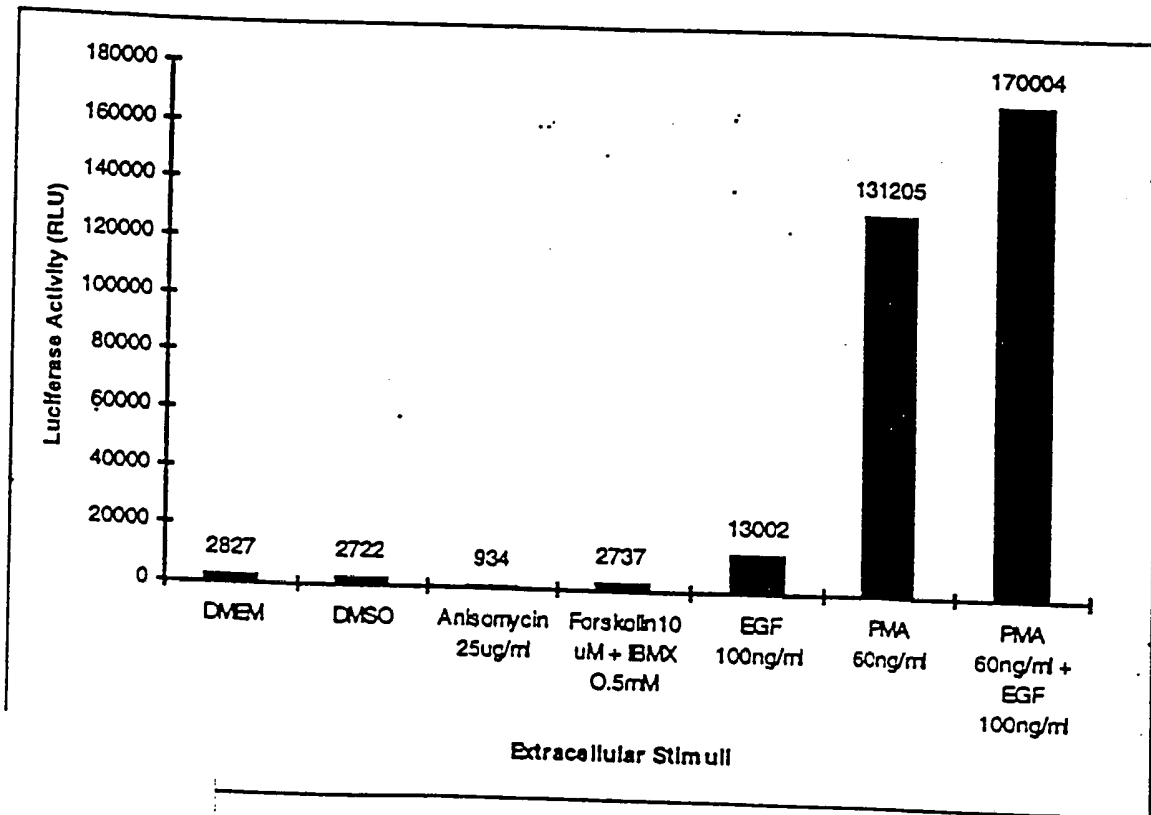


Figure 8

00637550-08100

Figure

118/

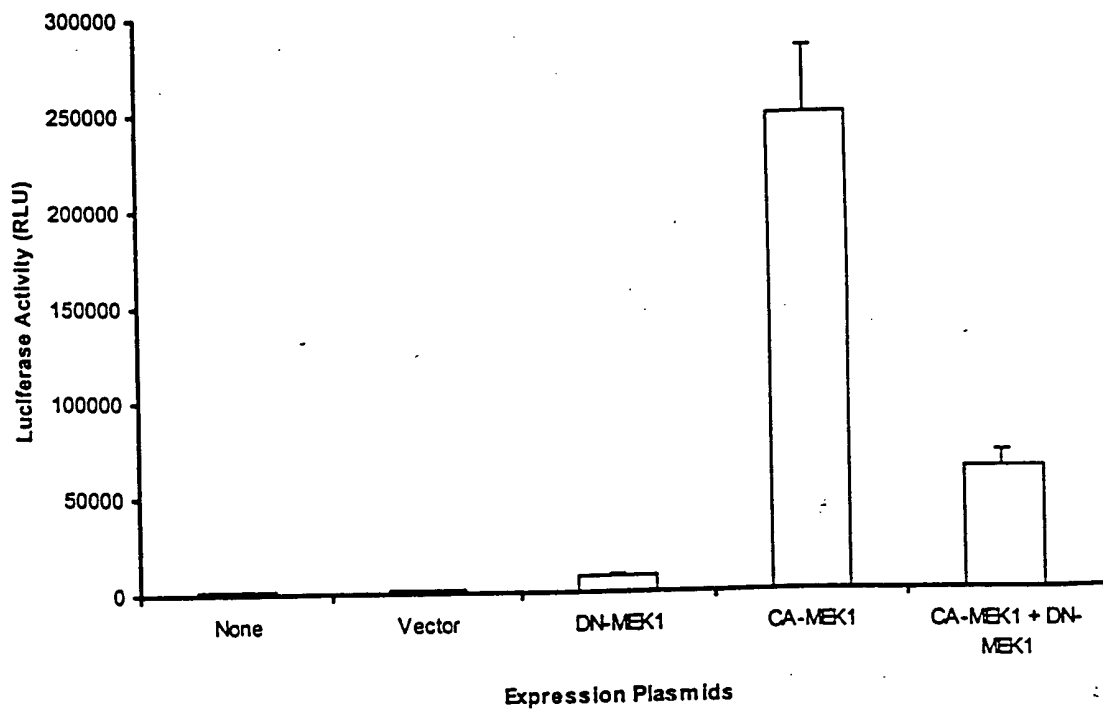


Figure 9



007780-0592560

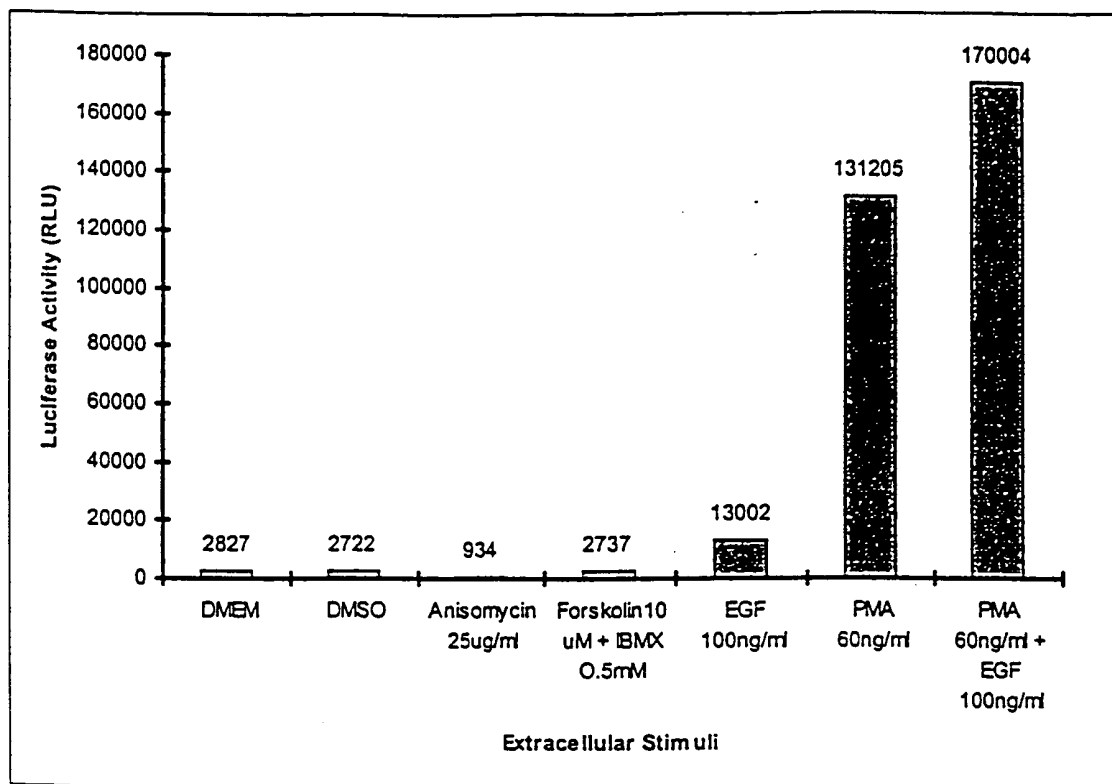


Figure 10

DOT130-0592E960

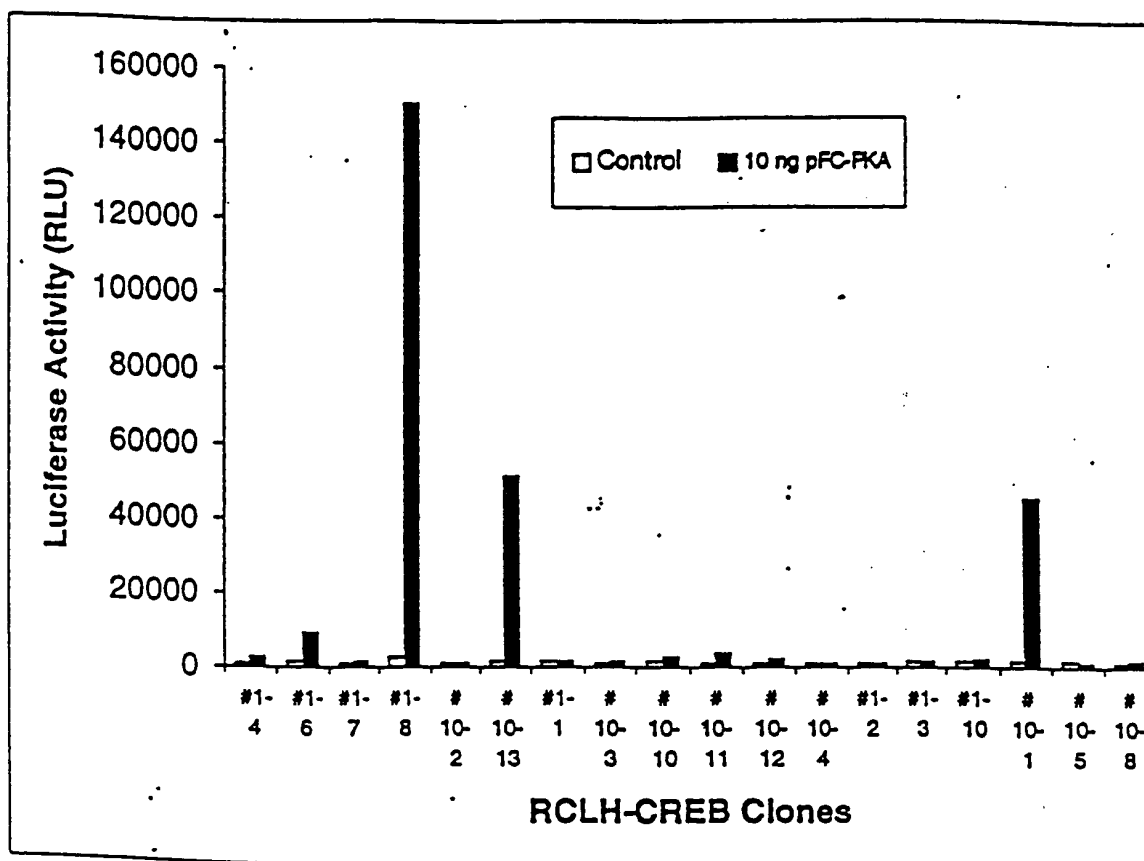


Figure 11

Figure 12

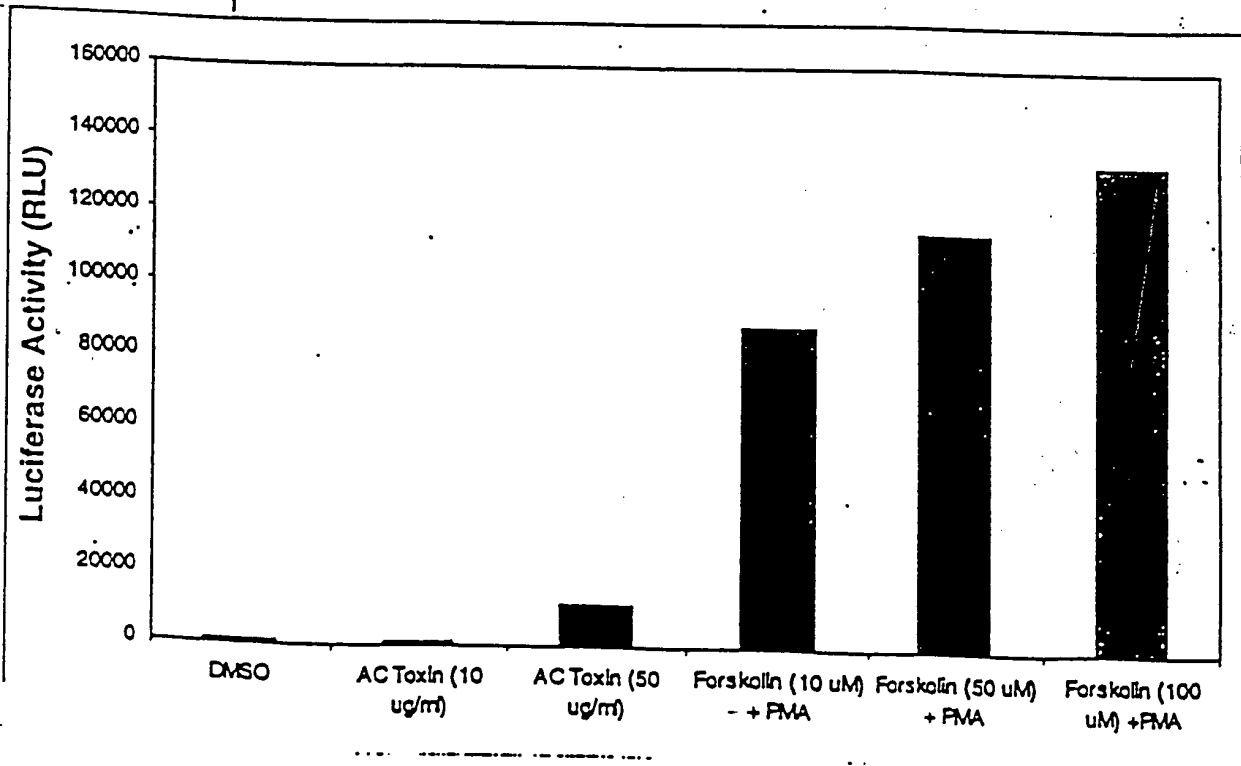
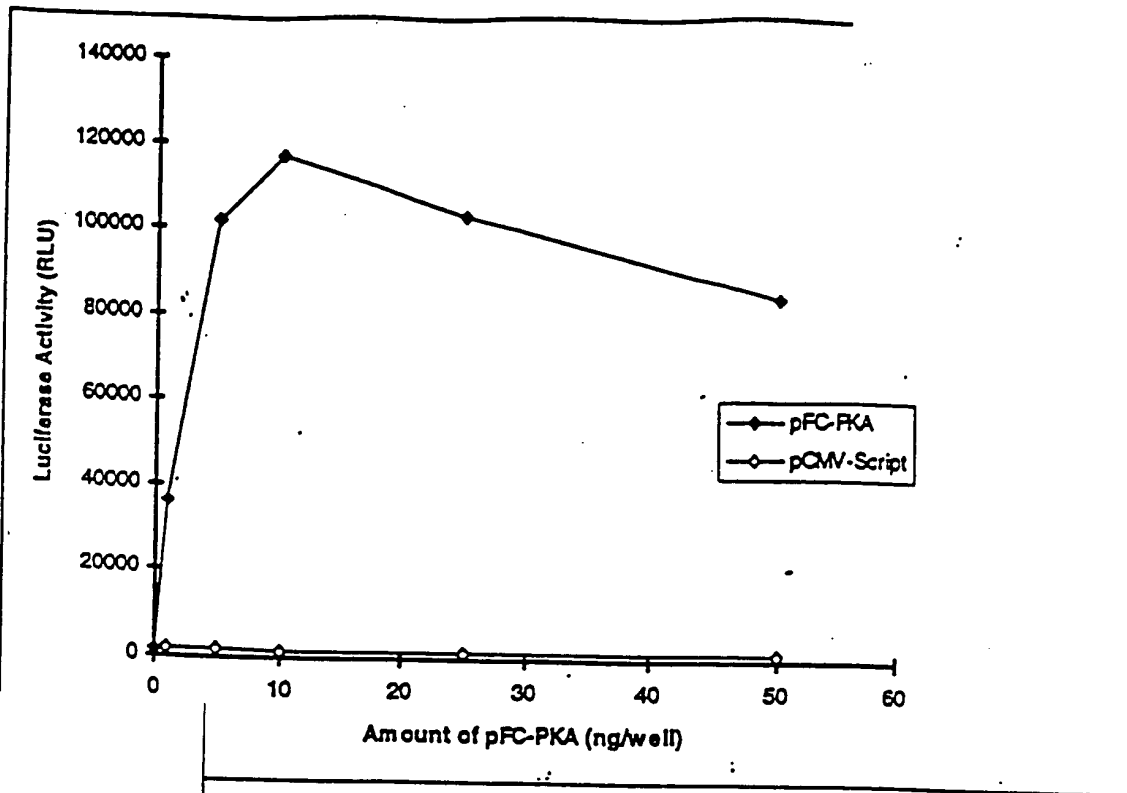


Figure 13

001120-0592E960

DOTTED 0594550

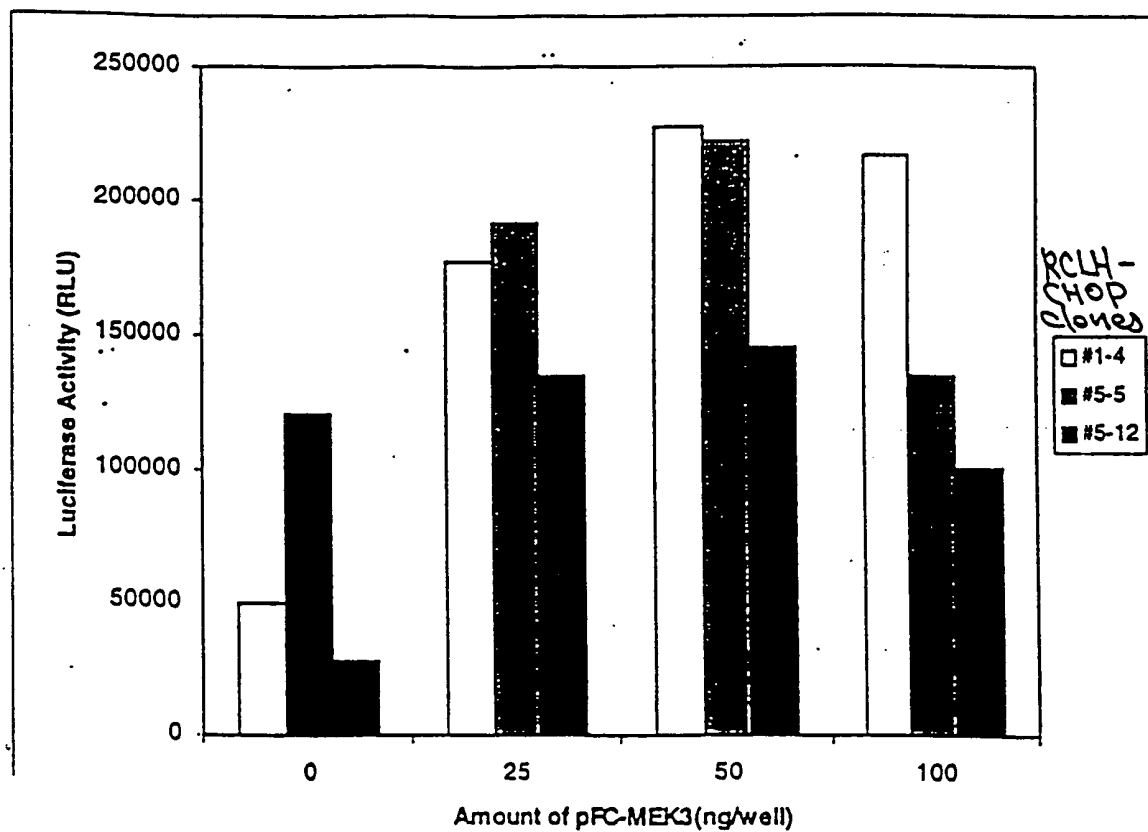


Figure 14

007480-0594550

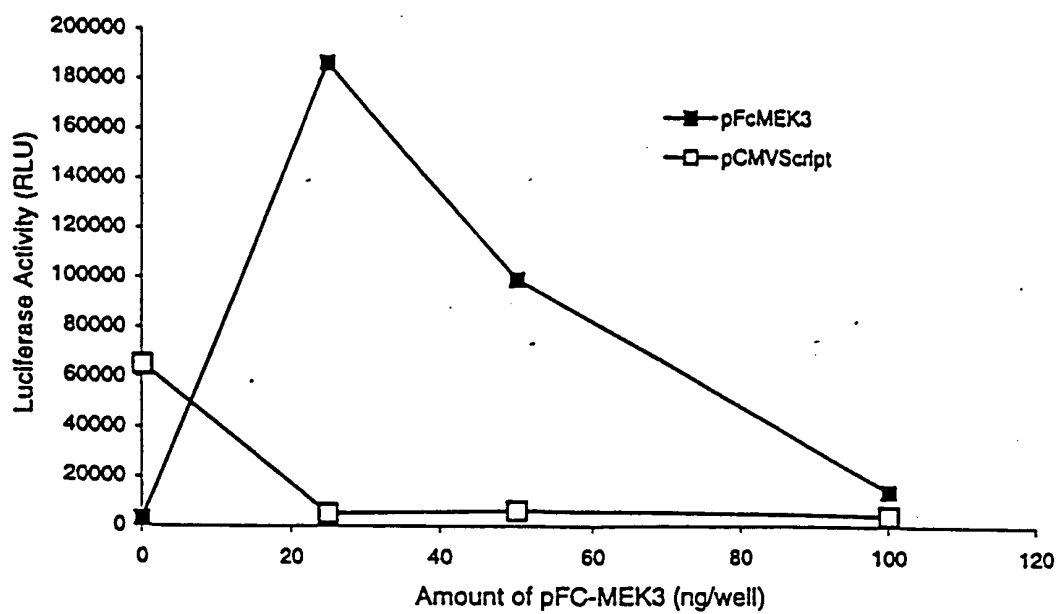


Figure 15

007780-0594E960

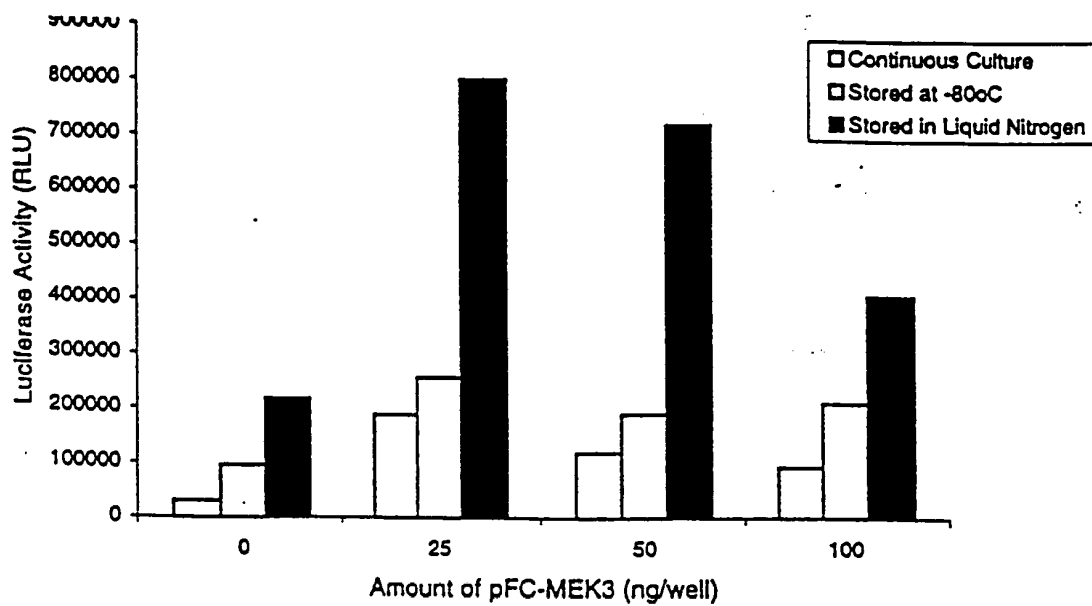


Figure 16

097780-05926960

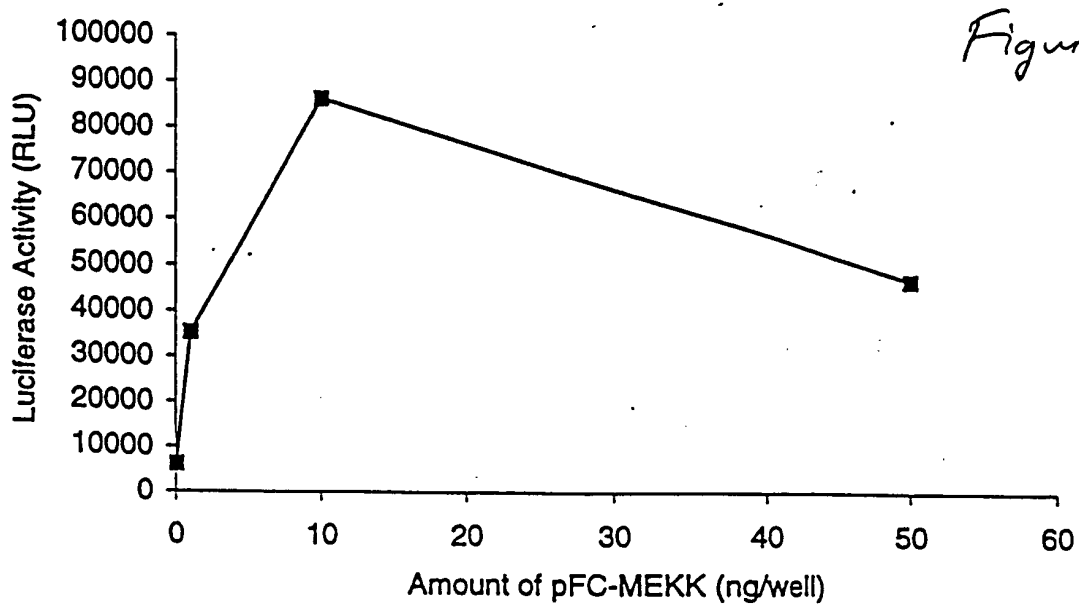
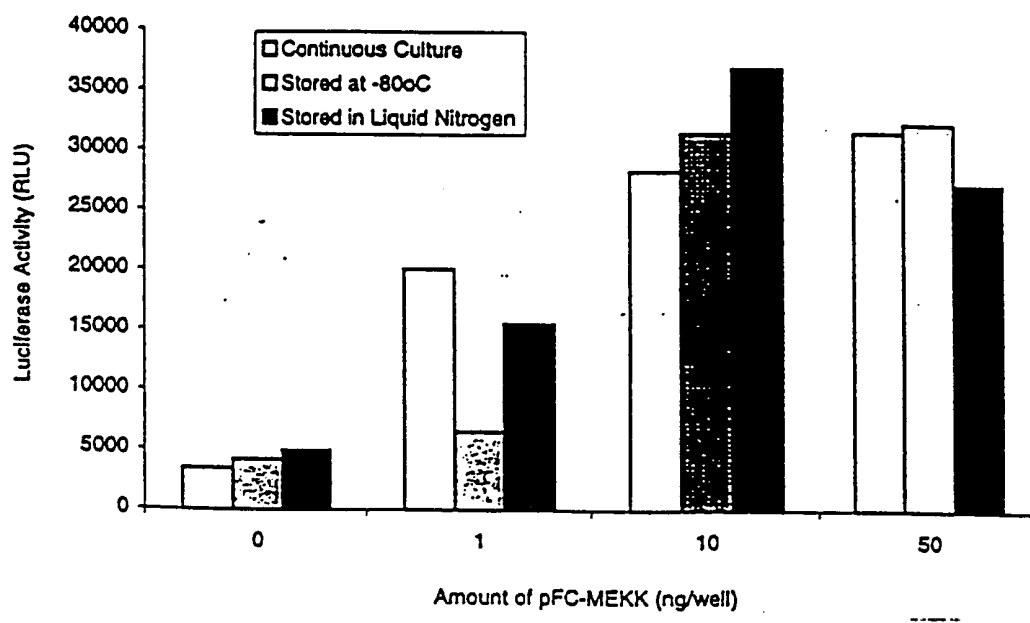


Figure 17

Figure 18



001130-0594960



00T8D"059ZESD

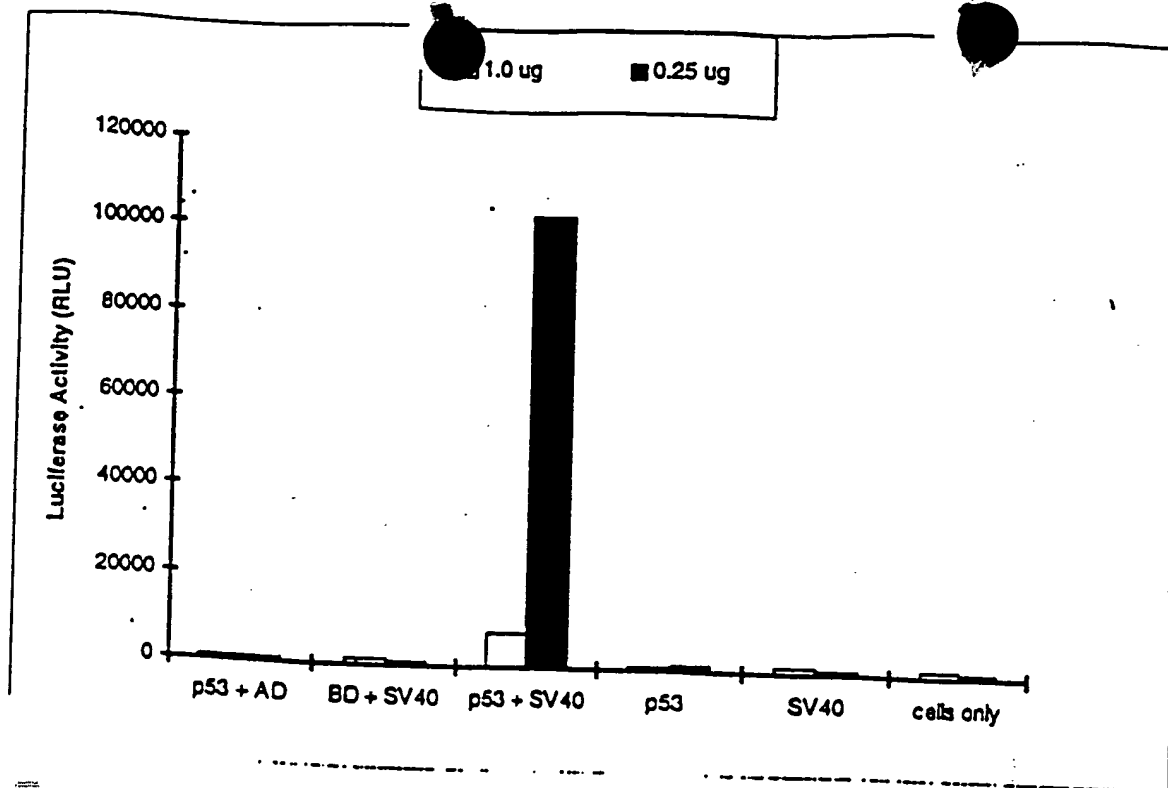


Figure 19